

549,943

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 November 2004 (11.11.2004)

PCT

(10) International Publication Number
WO 2004/097001 A2

- (51) International Patent Classification⁷: **C12N**
- (74) Agent: **BOYD, Victoria, L.**; Genencor International, Inc.,
925 Page Mill Road, Palo Alto, CA 94304 (US).
- (21) International Application Number:
PCT/US2004/013258
- (81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.
- (22) International Filing Date: 28 April 2004 (28.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/466,831 29 April 2003 (29.04.2003) US
- (84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (for all designated States except US): **GENEN-
COR INTERNATIONAL, INC.** [US/US]; 925 Page Mill
Road, Palo Alto, CA 94304 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **JONES, Brian, E.**
[GB/NL]; Gravin Juliana van Stolberglaan 24, NL-2263 VA
Leidschendam (NL). **GRANT, William, D.** [GB/GB]; 15
The Tithings, Kibworth Beauchamp, Leicestershire LE8
OPU (GB). **HEAPHY, Shaun** [GB/GB]; 426 Uppingham
Road, Leicester, Leicestershire LE52DP (GB). **GRANT,
Susan** [GB/GB]; 15 The Tithings, Kibworth Beauchamp,
Leicestershire LE8 OPU (GB).
- Published:
— without international search report and to be republished
upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: **NOVEL BACILLUS 029CEL CELLULASE**

The translated 029cel protein composed of 581 amino acids

MNFSLPPIRF	GIGPTAGFFL	LLMGSSALVA	STHTDKIRID	QFGYPADATK	50
VAVIADPQIG	WNSAESYSPG	ATLEVRRVND	GVVVFSGSPV	PWNGGAIHIQ	100
SGDRVWVDF	TVVAEPGHYR	IHDPANNTHS	DSFAIGADVY	DVVLREAVRM	150
FFYQSRGFAK	EVPIAHANWA	DAASHPQDVA	SRPIWDMGNA	SLERDLSGGW	200
FDAGDFNKYS	EWTRGVILEL	LLAYQGRPDV	FTDDFGIPES	GNGVPDLLDE	250
VKWGMDWLLR	MQEPGAILG	KVSVTGHQSA	SPPSTDTHPR	YYPGVSTEAT	300
AMAAAFAALG	ATVFESVGMS	DYAVTLESAA	IAAWNWTMVH	PHVPFDNTGF	350
ASVSPSRNAH	DTLANRVMAA	AMLFERTGGA	VYRDFFDVRY	LDMEFPVQWY	400
FFPFQGELQK	ALAHYTTLP	ATPSVSADIR	NRMAASINGG	EFLGAWNNQT	450
DAYRAYLKDQ	DYTWGSNKT	SGAGFFFEV	RRLGLNPADA	AAHRDAAMGY	500
LHYLHGVNPM	GMVYLSNMYA	SGADRAANEI	YHHWFRDGR	GTMPSLHSTV	550
PLLVFRRAGP	NAQIQRKHS	DRPRTAKSL	P		581

(57) Abstract: The present invention provides a novel cellulase nucleic acid sequence, designated 029cel, and the corresponding 029cel amino acid sequence. The invention also provides expression vectors and host cells comprising a nucleic acid sequence encoding 029cel, recombinant 029cel proteins and methods for producing the same.

WO 2004/097001 A2